

Atty. Dkt. No. 086531-0131

Amendments to the Specification:

Please amend the specification as follows:

Please replace the first paragraph on page 10, with the following rewritten paragraph:

In order to achieve these targets, ~~the invention as claimed in Claim 1 provides there~~ may be provided a boiling water reactor nuclear power plant comprising: a reactor building; a pressure containment vessel positioned in the reactor building; a drywell comprising a space inside the pressure containment vessel; a pressure suppression pool provided inside the pressure containment vessel; a nuclear reactor pressure vessel contained by the pressure containment vessel; a reactor core having fuel assemblies supported by a reactor core support plate and an upper grid plate provided in an inner base portion of the nuclear reactor pressure vessel; a reactor core shroud surrounding the reactor core and the upper grid plate; control rod guide tubes positioned in the reactor core shroud and over the upper grid plate; control rods inserted in the control rod guide tubes; and control rod drive mechanisms which drive the insertion and withdrawal of the control rods from above the reactor core, the control rod drive mechanisms being provided above the control rod guide tubes and inside the reactor core shroud.

Please replace the third paragraph starting at page 10, ending on page 11, with the following rewritten paragraph:

In the boiling water reactor ~~according to Claim 1, the invention as claimed in Claim 2 provides there may be provided~~ a boiling water reactor characterized in that the pressure suppression pool is positioned higher than said reactor core, said pressure suppression pool being connected to said nuclear reactor pressure vessel by means of gravity-based piping through which the cooling water drops by gravity.

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Please replace the third paragraph on page 11, with the following rewritten paragraph:

In the boiling water reactor nuclear power plant ~~according to either Claim 1 or Claim 2, the invention as claimed in Claim 3 provides~~ there may be provided a boiling water reactor nuclear power plant characterized in that a piping and nozzles connected to the nuclear reactor pressure vessel are located above the reactor core.

Please replace the fifth paragraph beginning on page 11, ending on page 12, with the following rewritten paragraph:

In the boiling water reactor nuclear power plant ~~according to any one of Claim 1 to Claim 3, the invention as claimed in Claim 4 provides~~ there may be provided a boiling water reactor nuclear power plant characterized in that a valve which can be optionally opened to an exterior of the core shroud is provided at a position above the fuel assembly.

Please replace the third paragraph on page 12, with the following rewritten paragraph:

In the boiling water reactor nuclear power plant ~~according to any one of Claim 1 to Claim 4, the invention as claimed in Claim 5 provides~~ there may be provided a boiling water reactor nuclear power plant characterized in that the walls of the pressure containment vessel are made from multiple steel plates having ribs, which are mutually opposing in a separated fashion, so that cooling means is formed by using the spaces between these multiple steel plates as water flowing passage or air flowing passage.

Please replace the fifth paragraph beginning on page 12, ending on page 13, with the following rewritten paragraph:

In the boiling water reactor nuclear power plant ~~according to any one of Claim 1 to Claim 5, the invention as claimed in Claim 6 provides~~ there may be provided a boiling water reactor nuclear power plant characterized in that the pressure suppression pool and the lower

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portion of the dry well are connected by means of a plurality of emergency piping, the piping being disposed at different positions in elevation level.

Please replace the third paragraph on page 13, with the following rewritten paragraph:

In the boiling water reactor nuclear power plant ~~according to either Claim 5 or Claim 6, the invention as claimed in Claim 7 provides~~ there may be provided a boiling water reactor nuclear power plant characterized in that a normal use cooling system is connected to the space regions formed between the multiple steel plates.

Please replace the fifth paragraph beginning on page 13, ending on page 14, with the following rewritten paragraph:

In the boiling water reactor nuclear power plant ~~according to any one of Claim 1 to Claim 7, the invention as claimed in Claim 8 provides~~ there may be provided a boiling water reactor nuclear power plant characterized in that a normally closed water drain pipe (discharge pipe) is led from the pressure suppression pool into the dry well at the base region of the nuclear reactor pressure vessel, the drain pipe is normally closed by a sealing device while the sealing device for this water drain pipe can be opened or released by heat sensing means in case of an emergency so as to open the water drain pipe.

Please replace the fourth paragraph on page 14, with the following rewritten paragraph:

In the boiling water reactor nuclear power plant ~~according to any one of Claim 1 to Claim 8, the invention as claimed in Claim 9 provides~~ there may be provided a boiling water reactor nuclear power plant characterized in that a heat pipe capable of exchanging heat is provided at a portion between the pressure suppression pool and the lower region of the dry well.

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Please replace the second paragraph on page 15, with the following rewritten paragraph:

In the boiling water reactor nuclear power plant ~~according to any one of Claim 1 to Claim 9, the invention as claimed in Claim 10 provides~~ there may be provided a boiling water reactor nuclear power plant characterized in that the nuclear reactor containment vessel is formed as a dual-cylinder structure wherein the dry well and the pressure suppression pool is positioned on the outer side of the dry well, in addition to which a guard pipe extending from the dry well section to the pressure suppression pool is provided, and piping and valves led from the nuclear reactor pressure vessel are accommodated inside this guard pipe.

Please replace the fourth paragraph on page 15, with the following rewritten paragraph:

In the boiling water type nuclear power plant ~~according to any one of Claim 1 to Claim 10, the invention as claimed in Claim 11 provides~~ there may be provided a boiling water type nuclear power plant characterized in that turbine system is located at an upper portion of the nuclear reactor building.

Please replace the second paragraph on page 16, with the following rewritten paragraph:

In the boiling water reactor nuclear power plant ~~according to any one of Claim 1 to Claim 11, the invention as claimed in Claim 12 provides~~ there may be provided a boiling water reactor nuclear power plant characterized in that a removing space for accommodating the nuclear reactor pressure vessel is provided above the nuclear reactor pressure vessel in the nuclear reactor building.

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Please replace the fourth paragraph on page 16, with the following rewritten paragraph:

In the boiling water reactor nuclear power plant ~~according to any one of Claim 1 to Claim 12, the invention as claimed in Claim 13 provides~~ there may be provided a boiling water reactor nuclear power plant characterized in that the nuclear reactor building is located on a foundation having a seismic structure.

Please replace the sixth paragraph beginning on page 16, ending on page 17, with the following rewritten paragraph:

The invention ~~as claimed in Claim 14~~ provides a method for constructing a boiling water reactor nuclear power plant characterized in that the boiling water reactor nuclear power plant ~~according to any one of Claim 1 to Claim 13 is~~ may be previously fabricated in a factory as building modules, then the modules are transported to a construction site, and only the required number of modules are installed so as to construct entire plant.

Please replace the third paragraph on page 40, with the following rewritten paragraph:

As described above, according to an aspect of the present invention ~~as claimed in Claim 1~~, it is possible to provide a compact and economical nuclear power plant.

Please replace the fourth paragraph on page 40, with the following rewritten paragraph:

According to an aspect of the invention ~~as claimed in Claim 2~~, even if a gravity driven core cooling system forming a passive safety system is adopted, it is possible to keep a source of water for the gravity driven core cooling system in the pressure suppression pool, and hence the size of the containment vessel can be compactified.

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Please replace the fifth paragraph on page 40, with the following rewritten paragraph:

According to an aspect of the invention as claimed in Claim 3, since all obstacles such as nozzles, pipes and the like can be eliminated from the area below the nuclear reactor pressure vessel, and the volume of the lower dry well can be minimized, it is possible to minimize the pool volume that is to be filled by the gravity driven core cooling system, and IVR (In Vessel Retention), namely, a retention of molten core material inside the nuclear reactor pressure vessel in order to prevent an incident from advancing, can be performed readily as a severe accident countermeasure.

Please replace the first paragraph on page 41, with the following rewritten paragraph:

According to an aspect of the invention as claimed in Claim 4, even if an ATWS (Anticipated Transient Without Scram) event occurs, then output power can be suppressed until the boric acid solution injection system for shutting down the nuclear reactor is operated.

Please replace the second paragraph on page 41, with the following rewritten paragraph:

According to an aspect of the invention as claimed in Claim 5, since removal of heat from the pressure containment vessel as required in the event of a loss of coolant accident or the like can be performed by means of a simple and compact system based on natural forces, then merits in terms of reliability and economy efficiency can be obtained.

Please replace the third paragraph on page 41, with the following rewritten paragraph:

According to an aspect of the invention as claimed in Claim 6, even if the reactor core has melted in a severe accident, cooling of the walls of the reactor pressure vessel and release of heat to the exterior of the pressure containment vessel can be effectively performed whilst readily retaining the molten reactor core inside the reactor pressure vessel. Furthermore, the

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influences of the severe accident can be kept to a minimum, thereby improving the safety of the plant.

Please replace the fourth paragraph on page 41, with the following rewritten paragraph:

According to an aspect of the invention ~~as claimed in Claim 7~~, there is no need to provide active devices in the dry well, hence making the interior of the dry well a maintenance-free space and also rationalizing the required space.

Please replace the fifth paragraph on page 41, with the following rewritten paragraph:

According to an aspect of the invention ~~as claimed in Claim 8~~, even if a reactor core melt down occurs, cooling and isolation of the molten material can be achieved without providing active devices inside the pressure containment vessel. Moreover, abnormal conditions can also be detected reliably.

Please replace the sixth paragraph on page 41, with the following rewritten paragraph:

According to an aspect of the invention ~~as claimed in Claim 9~~, it is possible to transmit heat released into the dry well in the event of an accident, to the pressure suppression pool without using active devices, and hence the accident can be terminated without flooding the dry well. Thereby, the reliability of the plant can be increased.

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Please replace the second paragraph on page 42, with the following rewritten paragraph:

According to an aspect of the invention as claimed in Claim 10, it becomes unnecessary for operators to enter inside the dry well, which is a high-radiation area, for performing maintenance of valves and the like. Further, the maintenance work can be performed inside a partially restricted guard pipe only, thereby reducing the radiation exposure of the operators.

Please replace the third paragraph on page 42, with the following rewritten paragraph:

According to an aspect of the invention as claimed in Claim 11, the same building can be used for all of the facilities, and hence an economic merit is obtained.

Please replace the fourth paragraph on page 42, with the following rewritten paragraph:

According to an aspect of the invention as claimed in Claim 12, it is possible to exchange the whole nuclear reactor pressure vessel including the dry well cylinder section in one unit.

Please replace the fifth paragraph on page 42, with the following rewritten paragraph:

According to an aspect of the invention as claimed in Claim 13, by positioning the integrated nuclear reactor building module on a foundation having an anti-seismic structure, standardized design for both the building and the devices and equipment can be achieved readily.

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Please replace the sixth paragraph on page 42, with the following rewritten paragraph:

According to an aspect of the invention as claimed in Claim 14, by fabricating integrated building modules in a factory and transporting the modules to the construction site, it is possible to arbitrarily select the plant output as required by installing only the required number of modules at the construction site.